

Title (en)
Exposure method

Title (de)
Belichtungsverfahren

Title (fr)
Procédé d'exposition

Publication
EP 0997781 A1 20000503 (EN)

Application
EP 99308452 A 19991026

Priority
JP 32143298 A 19981027

Abstract (en)

An exposure method for exposing a workpiece in a proximity exposure system, includes a first exposure step for printing, by exposure, an image of a first mask pattern on a predetermined portion of the workpiece, and a second exposure step for printing, by exposure, an image of a second mask pattern, different from the first mask pattern, on the predetermined portion of the workpiece, wherein exposures in the first and second exposure steps are performed superposedly, prior to a development process. <IMAGE>

IPC 1-7
G03F 7/20; G03F 1/14

IPC 8 full level
B81C 1/00 (2006.01); **G03F 1/00** (2012.01); **G03F 1/14** (2006.01); **G03F 7/20** (2006.01); **H01L 21/027** (2006.01); **G03F 7/00** (2006.01)

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H01L 21/027 (2013.01 - KR); **G03F 7/001** (2013.01 - EP US)

Citation (search report)

- [X] US 5482819 A 19960109 - TJHIA EDDY [US], et al
- [X] US 5134058 A 19920728 - HAN WOO-SUNG [KR]
- [X] EP 0020132 A2 19801210 - MASSACHUSETTS INST TECHNOLOGY [US]
- [X] US 4456371 A 19840626 - LIN BURN J [US]
- [X] PATENT ABSTRACTS OF JAPAN vol. 013, no. 410 (E - 819) 11 September 1989 (1989-09-11)
- [A] PATENT ABSTRACTS OF JAPAN vol. 013, no. 164 (E - 745) 19 April 1989 (1989-04-19)

Cited by
EP1353233A3; US6818389B2; WO03102696A3; WO0225373A3; US7583360B2; US6934007B2

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